

# DAFTAR ARSIP PUBLIKASI HASIL RISET DAN TULISAN ILMIAH POPULER PROGRAM PANAS BUMI UNIVERSITAS GADJAH MADA 1994 – 2011

## 01

### GEOLOGI DAN STUDI REGIONAL

#### 01\_01

##### **High-temperature Geothermal Area and its Challenges for Civil Engineering Works.**

*Pri Utami* (2010). The Indonesian Society for Geotechnical Engineering/HATTI 14<sup>th</sup> Annual Meeting. PIT XIV Himpunan Ahli Teknik Tanah Indonesia/HATTI. Yogyakarta, 2 – 3 Desember 2010.

#### 01\_02

##### **Long-term Volcanic Evolution Surrounding Dieng Geothermal Area, Indonesia.**

*A. Harijoko*, R. Uruma, H.E. Wibowo, *L.D. Setijaji*, A. Imai, and K. Watanabe (2010). Proc. World Geothermal Congress 2010. Bali, Indonesia, 25-29 April 2010.

#### 01\_03

##### **Some Volcano-hosted Geothermal Systems in Western Pacific Belt.**

*Pri Utami* and Patrick Browne (2010). Abstract Volume. Cities on Volcanoes 6 Conference, Tenerife, Spain. May 31 – June 4, 2010.

#### 01\_04

##### **Magmatism and Geothermal System at Ungaran Volcano Central Java, Indonesia.**

*A. Harijoko*, Y. Kohno, *M. Nukman*, N. Kim Phuong, K. Watanabe, R. Itoi and S. Taguchi (2010). Abstract Volume. Cities on Volcanoes 6 Conference, Tenerife, Spain. May 31 – June 4, 2010.

#### 01\_05

##### **Segmented Volcanic Arc and its Association with Geothermal Fields in Java Island, Indonesia.**

*Lucas D. Setijadji* (2010). Proc. World Geothermal Congress 2010. Proc. World Geothermal Congress 2010. Bali, 25-29 April 2010.

#### 01\_06

##### **Lahendong and Some Other Geothermal Systems in The Western Pacific Belt: Comparison on Their Geologic Settings, Hydrology and Hydrothermal Alteration.**

*Pri Utami*, P.R.L. Browne, and Suroto (2007). Proc. New Zealand Geothermal Workshop 2007. The University of Auckland, New Zealand.

#### 01\_07

##### **Geochronology and Petrogenetic Aspects of Quaternary Across Arc Magmatism on Merapi-Merbabu-Telomoyo-Ungaran Volcanoes, Central Java, Indonesia.**

Yasuaki Kohno, *Lucas D. Setijadji*, Pecskey Zoltan, *Harijoko Agung*, *Pri Utami*, Akira IMAI, and Koichiro Watanabe (2006). Proceedings of the 3<sup>rd</sup> International Symposium Earth Resources and Geological Engineering Education.

### 01\_08

#### **Overview of the Lahendong Geothermal Field, North Sulawesi, Indonesia: a Progress Report.**

*Pri Utami, E.E. Siahaan, T. Azimudin, Suroto, P.R.L. Browne, and S.F. Simmons (2004). Proc. 26<sup>th</sup> NZ Geothermal Workshop 2004. The University of Auckland, New Zealand.*

### 01\_09

#### **Towards the Digital Data Model for Geothermal Databases: Technology Trends, Fundamental Concepts, Case Study of Java Island, and Preliminary Data Model.**

*Lucas D. Setijadji, Koichiro Watanabe, Rina Wahyuningsih, and Djoko Wintolo (2005). Proceedings World Geothermal Congress 2005. Antalya, Turkey, 24-29 April 2005*

### 01\_10

#### **Pemetaan Fasies Vulkanik pada Daerah Prospek Panasbumi Gunung Ungaran, Jawa Tengah (Laporan Kemajuan).**

*Syabaruddin, Saptono Budi Samodro, Isa Nurnusanto, dan Pri Utami (2003). Proc. of 32<sup>nd</sup> IAGI and the 28<sup>th</sup> HAGI Joint Annual Convention and Exhibition, Jakarta 2003.*

### 01\_11

#### **Interpretasi Kontrol Struktur dan Komponen-komponen Sistem Panasbumi Gunung Ungaran, Jawa Tengah Berdasarkan Citra LANDSAT Thematic Mapper.**

*Sigid Dwi Nugroho, Soetoto, dan Pri Utami (2003). Proc. of 32<sup>nd</sup> IAGI and the 28<sup>th</sup> HAGI Joint Annual Convention and Exhibition, Jakarta 2003.*

### 01\_12

#### **Peran Citra Penginderaan Jauh dalam Pengembangan Sumber Daya Panasbumi.**

*Pri Utami dan Soetoto (2001). Proc. PIT Masyarakat Penginderaan Jauh Indonesia/MAPIN. Mataram, 11 – 12 Juli 2001.*

## 02

### **GEOLOGI DAN ALTERASI HIDROTERMAL**

#### 02\_01

##### **Characteristics of Hydrothermal Alteration in Part of the Northern Vapor-Dominated Reservoir of the Wayang Windu Geothermal Field, West Java.**

*Angeline. B. Abrenica, A. Harijoko, Yudi Indra Kusumah, and Ian Bogie (2010). Proc. World Geothermal Congress 2010. Bali, 25-29 April 2010.*

#### 02\_02

##### **Mass Transfer During Hydrothermal Alteration at the Lahendong Geothermal System, North Sulawesi.**

*Pri Utami, P.R.L. Browne, S.F. Simmons, and Suroto (2006). Proc. 28<sup>th</sup> NZ Geothermal Workshop 2006. The University of Auckland, New Zealand.*

#### 02\_03

##### **Hydrothermal Alteration Mineralogy of the Lahendong Geothermal System, North Sulawesi: a Progress Report.**

*Pri Utami, P.R.L. Browne, S.F. Simmons., and Suroto (2005). Proc. 27<sup>th</sup> New Zealand Geothermal Workshop 2005. The University of Auckland, New Zealand.*

#### **02\_04**

##### **Subsurface Geology and Hydrothermal Alteration in Dieng Geothermal Field, Central Java, Indonesia.**

A.A. Calibugan, N.H. Wibowo, A. Harijoko, D. Wintolo, M.R.B. Tarriela, T. Silitonga, and T. Purwantoro (2006). Proc. 3<sup>rd</sup> International Symposium on Earth Resources and Geological Engineering Education, Gadjah Mada University. Yogyakarta, Indonesia, 3 to 4 August 2006.

#### **02\_05**

##### **Karakter Kehilangan Panas Alamiah dan Alterasi Hidrotermal Permukaan di Area Manifestasi Gedongsongo dan Sekitarnya, Daerah Prospek Panasbumi Ungaran, Jawa Tengah.**

Y. Aribowo, Pri Utami, dan Wahyudi (2003). Proc. of 32<sup>nd</sup> IAGI and the 28<sup>th</sup> HAGI Joint Annual Convention and Exhibition, Jakarta 2003.

#### **02\_06**

##### **Characteristics of the Kamojang Geothermal Reservoir (West Java) as Revealed by Its Hydrothermal Alteration Mineralogy.**

Pri Utami (2000). Proc. World Geothermal Congress 2000. Kyushu – Tohoku, Japan, May 28 – June 10, 2000.

#### **02\_07**

##### **Mass Transfer During Hydrothermal Alteration: a Case Study for the Kamojang Geothermal Field.**

Pri Utami (1998). Proc. Pertemuan Ilmiah Tahunan IAGI XXVII. Yogyakarta, 8 – 9 Desember 1998.

#### **02\_08**

##### **Subsurface Hydrothermal Alteration in the Kamojang Geothermal Field, West Java, Indonesia.**

Pri Utami and P.R.L. Browne (1999). Proc. 24<sup>th</sup> Workshop on Geothermal Reservoir Engineering. Stanford University, California, January 25 – 27, 1997.

#### **02\_09**

##### **Subsurface Hydrothermal Alteration in the Ulumbu Geothermal Field, Flores, Indonesia.**

Kasbani, P.R.L. Browne, R.D. Johnstone, K. Kahsai, and P. Utami and A. Wangge (1997). Proc. 22<sup>nd</sup> Workshop on Geothermal Reservoir Engineering, Stanford University. California, January 27 – 29 1997.

#### **02\_10**

##### **Petrology of Core and Cutting Samples from Wells ULB-01 and ULB-02, Ulumbu Geothermal Field, Flores, Indonesia.**

Pri Utami and P.R.L. Browne (1996). Proc. Silver Anniversary Convention, Indonesian Petroleum Association. Jakarta, October 8 – 10, 1996.

## 03

### GEOKIMIA FLUIDA

#### 03\_01

##### **Geochemistry of the Ungaran Geothermal System, Central Java, Indonesia.**

Nguyen Kim Phuong, *Heru Hendrayana, Agung Harijoko, Ryuichi Itoi and Rie Unoki* (2005). Proc. Joint Convention The 3<sup>rd</sup> HAGI, The 34<sup>th</sup> IAGI, and The 14<sup>th</sup> PERHAPI Annual Conference and Exhibition. Surabaya, 2005.

#### 03\_02

##### **Soil Air Gas and Water Geochemical Study of the Gedongsongo Geothermal Area, Central Java, Indonesia.**

Nguyen Kim Phuong, *Heru Hendrayana, Agung Harijoko, Ryuichi Itoi and Rie Unoki* (2004), Proc. 1<sup>st</sup> International Symposium on Earth Resources Engineering and Geological Engineering, Gadjah Mada University, Yogyakarta, Indonesia.

## 04

### GEOFISIKA

#### 04\_01

##### **Some Physical Properties of Gedongsongo Steaming Ground, Central Java, Indonesia.**

*Mochamad Nukman, Djoko Wintolo, Wahyudi, and Wiwit Suryanto* (2010). Proc. World Geothermal Congress 2010. Bali, 25-29 April 2010.

#### 04\_02

##### **A Geophysical Characteristic Over Kelud Caldera Post November 2007 Eruption.**

*Imam Suyanto, Sintia Windhi, and Wahyudi* (2010). Proc. World Geothermal Congress 2010. Bali, 25-29 April 2010.

#### 04\_03

##### **Overview of Gedongsongo Manifestations of the Ungaran Geothermal Prospect, Central Java, Indonesia: a Preliminary Account.**

*Mochamad Nukman* (2009). Proc. 34<sup>th</sup> Workshop on Geothermal Reservoir Engineering, Stanford University. California, February 9 – 11, 2009.

#### 04\_04

##### **Analisis Data Magnetik untuk Mengetahui Struktur Bawah Permukaan Daerah Manifestasi Airpanas di Lereng Utara Gunungapi Ungaran.**

Boko Nurdianto S., *Wahyudi, dan Imam Suyanto* (2004). Prosiding PIT ke 29 Himpunan Ahli Geofisika Indonesia. Yogyakarta, 5 – 7 Oktober 2004.

#### 04\_05

##### **Analisis Data Suhu, Konduktivitas, dan Aliran Panas untuk Menafsir Struktur Bawah Permukaan Daerah Gedongsongo beserta Potensinya.**

Teguh P. Wahyono, *Wahyudi, dan Imam Suyanto* (2004). Prosiding PIT ke 29 Himpunan Ahli Geofisika Indonesia. Yogyakarta, 5 – 7 Oktober 2004.

#### **04\_06**

##### **Model Tentatif Daerah Prospek Panasbumi Ulubelu Kabupaten Lampung Selatan, Propinsi Lampung berdasarkan Data *Magnetotelluric* dan *DC-Resistivity*.**

Yorinaldi, Mulyadi *Djoko Wintolo* dan *Pri Utami* (2000). Proc. PIT Ikatan Ahli Geologi Indonesia/IAGI, Bandung, 21 – 22 November 2000. Vol. 1.

## **05**

### **TEKNOLOGI**

#### **05\_01**

##### **Automatic Main Cooling Water Systems (aMCWS).**

R.H. Ridwan, P. Pakpahan, T.A. Fauzi, *Khasani*, A.M. Zulkarnaen, H. Effendi, and A. Nasution (2010). Proceedings World Geothermal Congress 2010. Bali, Indonesia, 25-29 April 2010.

#### **05\_02**

##### **Utilization of Continuous Measured Wellhead Pressure for Evaluating Reservoir Properties.**

*Khasani* (2010). Proceedings World Geothermal Congress 2010. Bali, Indonesia, 25-29 April 2010.

#### **05\_03**

##### **Development of Measurement Method of Steam-Water Two-Phase Flow System Using Single Frequency Waves.**

*Khasani, Indarto, A. Harijoko*, T. Dwikorianto and S. Patangke (2010). Proceedings 35th Workshop on Geothermal Reservoir Engineering, Stanford University, California, 1-3 February 2010.

#### **05\_04**

##### **Development of Measurement Method of Air-Water Two-Phase Flow System Using 1000 Hz Single Frequency Wave.**

*Khasani, Indarto, A. Harijoko*, T. Dwikorianto and S. Patangke (2009). The 31st New Zealand Geothermal Workshop 2009, University of Auckland, New Zealand.

#### **05\_05**

##### **Optimization of Main Cooling Water Pump (MCWP) Using VFD (Variable Frequency Drive) as a Strategy for Geothermal Power Plant Efficiency.**

M. Zulkarnain, R. H. Ridwan, and *Khasani* (2008). 8th Annual Meeting of Indonesian Geothermal Association, 3 December 2008.

#### **05\_06**

##### **Numerical Study on Onset of Convection in a Porous Medium.**

*Khasani* (2008). Proceeding of Annual Seminar of Indonesian Mechanical Engineer Association VII-2008. Manado, 3-5 November 2008.

#### **05\_07**

##### **Interpretation of Continuous Measurement of Steam and Water Flowrates at a Production Well 2H-21, Hatchobaru Geothermal Field, Japan.**

*Khasani*, T. Tanaka, and R. Itoi (2008). The 30th New Zealand Geothermal Workshop 2008, University of Auckland, New Zealand.

#### **05\_08**

##### **Application of Transient Wellbore Simulator to Evaluate Deliverability Curve on Hypothetical Well-X.**

*Khasani, Suhanan, Deendarlianto, A. Harijoko, T. Dwikorianto, and I.B. Raharjo (2008).* Proceedings 33rd Workshop on Geothermal Reservoir Engineering, Stanford University, California, 28-31 January 2008.

#### **05\_09**

##### **Analytical Study on Onset of Convection in a Porous Medium.**

*Khasani (2007).* Proceeding of Annual Seminar of Indonesian Mechanical Engineer Association VI-2007. Banda Aceh, 20-22 November 2007.

#### **05\_10**

##### **Numerical Analysis of Transient Behaviors of Geothermal Well Deliverability.**

*Khasani, R. Itoi and H. Fujii (2005).* Proceedings World Geothermal Congress 2005. Antalya, Turkey, 24-29 April 2005.

#### **05\_11**

##### **Effects of CO<sub>2</sub> Gas in Geothermal Water on Well Characteristics.**

*Khasani, E. Miyazaki and R. Itoi (2004).* Proceeding of 2nd International Workshop on Earth Science and Technology, Kyushu University, Fukuoka, Japan Dec. 6, 2004.

#### **05\_12**

##### **A Study on Effects of Initial Water Saturation in The Reservoir on Well Characteristics.**

*Khasani, R. Itoi, T. Tanaka and M. Fukuda (2004).* Memoirs of the Faculty of Engineering, Kyushu University, Fukuoka, Japan. Vol. 64. No.1 March 2004.

#### **05\_13**

##### **Analysis of Production Characteristics of Well MT-27 Affected by Scale Deposition in Wellbore at Momotombo Geothermal Field, Nicaragua.**

*Khasani, E. Porras and R. Itoi (2003).* Proceeding of 1<sup>st</sup> International Workshop on Earth Science and Technology, Nov. 7, 2003, Kyushu University, Fukuoka, Japan.

#### **05\_14**

##### **An Analysis of Pressure Drops in Wellbore at Low Flow Rate Conditions Appeared on A Deliverability Curve.**

*Khasani, R. Itoi, T. Tanaka and M. Fukuda (2002).* The 24th New Zealand Geothermal Workshop 2002, University of Auckland, New Zealand.

#### **05\_15**

##### **Interpretation of Well Logging Data on Lahendong Geothermal Field, Indonesia.**

*Khasani, R. Itoi, M. Fukuda and S. Sudarman (2001).* 5th Indonesian Geothermal Association Annual Scientific Conference & Exhibition. Yogyakarta, March 7-10, 2001.

#### **05\_16**

##### **Kemungkinan Pendekatan Statistik terhadap Ketidakpastian pada Pemodelan Investasi Eksplorasi Panasbumi.**

*Djoko Wintolo, Budianto Toha, dan Heru Hendrayana (1994).* Kumpulan Makalah Lokakarya Energi 1994. Jakarta, 25 – 27 Oktober 1994. Komite Nasional - World Energy Council.

## 06

### PENDIDIKAN PANAS BUMI

#### 06\_01

##### **Lahendong Geothermal Education Park: A Proposed Geothermal Public Education Facility in the Eastern Part of Indonesia.**

*Pri Utami, Khasani, J. Roeroe, N. Tuerah, Z.I. Bachrun, K. Rozaq and M. Gumalag (2011).* Proc. New Zealand Geothermal Workshop 2011. Auckland, New Zealand, 21-23 November 2011

#### 06\_02

##### **Geothermal Teaching and Research at Gadjah Mada University: History and Future Plans.**

*Pri Utami, Khasani and Tumiran (2009).* Proc. 31<sup>st</sup> New Zealand Geothermal Workshop 2009. The University of Auckland, New Zealand.

#### 06\_03

##### **The Role of Mechanical Engineers on the Geothermal Industry in Indonesia.**

*Khasani (2005).* Proceeding of Annual Seminar of Indonesian Mechanical Engineer Association IV. Bali, November 21 – 22, 2005.

#### 06\_04

##### **Penguasaan Teknologi Energi Panasbumi Indonesia.**

*Sutrisno (1995).* Proc. Seminar Nasional Teknologi Energi. Peringatan 49 Tahun Pendidikan Tinggi Teknik. Fakultas Teknik UGM, Yogyakarta, 16 Februari 1995.

## 07

### RISET DASAR

#### 07\_01

##### **The Use of Scaled-down Method in Geothermal Reservoir Modeling.**

*Samsul Kamal, Sutrisno, Djoko Wintolo, Soedjatmiko, and S. Sudarman (1997).* Proc. 22<sup>nd</sup> Workshop on Geothermal Reservoir Engineering. Stanford University, California, January 27 – 29, 1997.

#### 07\_02

##### **Proposed Empirical Gas Geothermometer Using Multidimensional Approach.**

*Supranto, Sudjatmiko, Budianto Toha, and Djoko Wintolo (1996).* Proc. 21<sup>st</sup> Workshop on Geothermal Reservoir Engineering, Stanford University. California, January 22 – 24, 1996.

#### 07\_03

##### **A Study of the Propagation of Compression Waves in Porous Medium Filled with Steam.**

*Sutrisno, Djoko Wintolo, Samsul Kamal, and S. Sudarman (1996).* Proc. 21<sup>st</sup> Workshop on Geothermal Reservoir Engineering, Stanford University. California. January 22 – 24, 1996.

## **08**

### **TULISAN ILMIAH POPULER**

#### **08\_01**

##### **Energi Panasbumi: Sebuah Gambaran Umum.**

*Pri Utami* (1998). Majalah ENERGI Edisi No. 2. November 1998. Pusat Studi Energi Universitas Gadjah Mada. hal. 39 – 42.

#### **08\_02**

##### **Pemanfaatan Energi Panasbumi Secara Langsung.**

*Pri Utami* (1999). Majalah ENERGI. Edisi No. 3. Februari – April 1999. Pusat Studi Energi Universitas Gadjah Mada. hal. 7 – 11.